DOCUMENT RESUME

ED 474 681 CG 032 292

AUTHOR Goggin, K.; Metcalf, K.; Kennedy, S.; Wise, D.; Murray, T.;

Broadus, K.; Burgess, D.; Reese-Smith, J.; Terhune, N.;

Buckendahl, H.; Downes, A.

TITLE HIV Risk and Substance Use Behaviors among African American

Youth.

PUB DATE 2002-08-00

NOTE 20p.; Paper presented at the Annual Conference of the

American Psychological Association (110th, Chicago, IL,

August 22-25, 2002).

PUB TYPE Reports - Research (143) -- Speeches/Meeting Papers (150)

EDRS PRICE EDRS Price MF01/PC01 Plus Postage.

DESCRIPTORS *Acquired Immunodeficiency Syndrome; Adolescent Behavior;

*Black Youth; Drinking; Drug Use; Inner City; Marijuana; Peer

Influence; *Predictor Variables; Sexuality; *Substance Abuse

IDENTIFIERS *Risk Taking Behavior

ABSTRACT

The purpose of this study was to determine if there was an association between HIV sexual risk and substance use behaviors among a sample of inner-city African American youth. As part of a larger study, youth (n=193) competed questionnaires that measured sexual risk as well as substance use. Participants were separated in to high risk and low risk groups. A greater proportion of high risk participants as compared to low risk youth used alcohol and marijuana in the last month. Further, a significant correlation between sexual risk scores and alcohol consumption in the last month was observed, with greater sexual risk being associated with greater alcohol consumption and marijuana use. High risk youth also report lower self-efficacy for refusing drugs or refusing sex after drinking. Results indicate that African American youth who engage in high risk sexual behaviors are more likely to use alcohol and marijuana than those who do not. Prevention programs should be designed to address the interaction of these risk behaviors. (Author)



HIV Risk and Substance Use Behaviors among African American Youth

by

K. Goggin

K. Metcalf

S. Kennedy

D. Wise

T. Murray

K. Broadus

D. Burgess

J. Reese-Smith

N. Terhune

H. Buckendahl

A. Downes

U.S. DEPARTMENT OF EDUCATION Office of Educational Research and Improveme **EDUCATIONAL RESOURCES INFORMATION**

- CENTER (ERIC)

 This document has been reproduced as received from the person or organization originating it.
- ☐ Minor changes have been made to improve reproduction quality.

BEST COPY AVAILABLE

PERMISSION TO REPRODUCE AND DISSEMINATE THIS MATERIAL HAS BEEN GRANTED BY

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

Points of view or opinions stated in this document do not necessarily represent official OERI position or policy.

Abstract: HIV Risk and Substance Use Behaviors Among African American Youth

The purpose of this study was to determine if there was an association between HIV sexual risk and substance use behaviors among a sample of inner-city African American youth. As part of a larger study, youth (n=193) completed questionnaires that measured sexual risk (last 3 months) as well as substance use (past month). Participants were separated in to high risk (≥ 1 unprotected sexual act) and low risk (0 unprotected sexual acts) groups. A greater proportion of high risk participants as compared to low risk youth used alcohol (44% vs. 26%; X^2 =3.82, p=.06) and marijuana (54% vs.32%; χ^2 = 13.73, p < .05) in the last month. Further, a significant correlation between sexual risk scores and alcohol consumption in the last month was observed, with greater sexual risk being associated with greater alcohol consumption (r=0.22, p=0.01) and marijuana use (r = 0.26, p = .01). High risk youth also report lower self-efficacy for refusing drugs or refusing sex after drinking. Results indicate that African American youth who engage in high risk sexual behaviors are more likely to use alcohol and marijuana than those who do not. Prevention programs should be designed to address the interaction of these risk behaviors.



Goggin, K., Metcalf, K., Kennedy, S., Wise, D., Murray, T., Broadus, K., Burgess, D., Reese-Smith, J., Terhune, N., Buckendahl, H., & Downes, A. (2001). HIV Risk and Substance Use Behaviors Among African American Youth. Under review for the 109th Annual Meeting of the American Psychological Association.

HIV Risk and Substance Use Behaviors Among African American Youth

Rates of HIV infection continue to rise among African American (AA) youth despite declining rates in other populations (CDC, 2001). The rate of new HIV infection among AA adolescents is more than 8 times that of Caucasian youth and 6 times that of Hispanic adolescents (CDC, 2001). In 1999, AA adolescents (age 13-19) accounted for 56% of all new HIV diagnoses (CDC, 2001). While HIV infection among youth is most often attributed to sexual transmission, other risk behaviors (i.e., intravenous drug use) have been implicated (CDC, 2001).

Rates of heavy drinking (≥ 5 drinks) among AA adolescents have stayed consistently high (15% for boys and 5% for girls) over a 10-year period whereas rates for white adolescents have decreased (Caetano & Clark, 1998; Jones-Webb, 1998). Frequent heavy drinking places AA adolescents at higher risk for problem development than whites (Caetano & Clark, 1998). In fact, AA adolescents who drink experience disproportionately more negative consequences as a result of alcohol use compared to youth of other ethnic groups (Wallace, 1999).

Evidence is emerging to suggest that alcohol, substance use, and sexual risk behaviors may be related. For example, Newman and Zimmerman (2000) found that risky sexual behaviors were associated with alcohol and other drug use among African American males ages 15-18. Boyer (2000) observed that adolescent female marijuana users had a greater number of lifetime sexual partners and history of an STD. Additionally, sex while under the influence of alcohol or



marijuana is associated with inconsistent condom use and multiple partners (Poulin & Graham, 2001). The purpose of this study was to determine if there was an association between HIV sexual risk and substance use (i.e., alcohol and marijuana use) behaviors among a sample of inner-city African American youth.

Participants were 193 youth enrolled in two alternative schools (one middle and one high school) in a major Midwestern city. On average, youth were 15 years old (SD = 2.11, range 11-21), identified as African American (83%) and equally likely to be male (52%) or female (48%). As part of a larger study, participants completed questionnaires in their homerooms or counseling groups during the fall semester of 2001. The questionnaire asked participants to record the number of vaginal, anal, and/or oral sexual risk behaviors they had engaged in during the past 3 months. It also queried the number of times condoms were used. A sexual risk score for each sexually active participant (n = 116) was calculated by subtracting the number of sexual encounters in which a condom was used from the total number of sexual encounters. Sexually active participants were classified as high risk if they reported ≥1 occasion of unprotected sex (n = 41). All others were classified as low risk (n = 75). Data on substance use was obtained by asking participants to indicate the number of days in the past month on which they used any substance including alcohol, marijuana, heroin, and six other commonly used substances. A substance use score was calculated for each participant by summing the number of days of use of each substance in the past month.

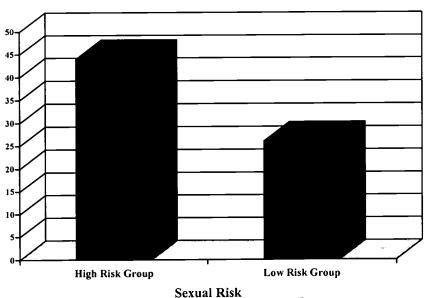


Results

Participants classified as high or low sexual risk did not differ in terms of their average age, gender, ethnic identity or age of sexual initiation. However, participants in the high risk group reported a significantly greater number lifetime sexual partners (M = 6.55, SD = 6.55) than participants in the low risk group (M = 3.96, SD = 4.66; t(103) = 2.36, p = .02), as well as a significantly greater number of sexual acts (vaginal, anal, or oral) in the past three months (M = 11.68, SD = 13.19) than participants in the low risk group (M = 3.52, SD = 4.74, t(110) = 4.73, p = .00).

There was a significant correlation between sexual risk scores and alcohol consumption in the last month, with greater sexual risk associated with greater alcohol consumption (r = 0.22, p = 0.01). While the groups did not differ in terms of the average number of days in which alcohol was used in the past month (high risk = 10.44 vs. low risk = 8.11), a greater proportion of high risk participants used alcohol in the last month (44% vs. 26%; $\chi^2(1,1) = 3.82$, p = .06).

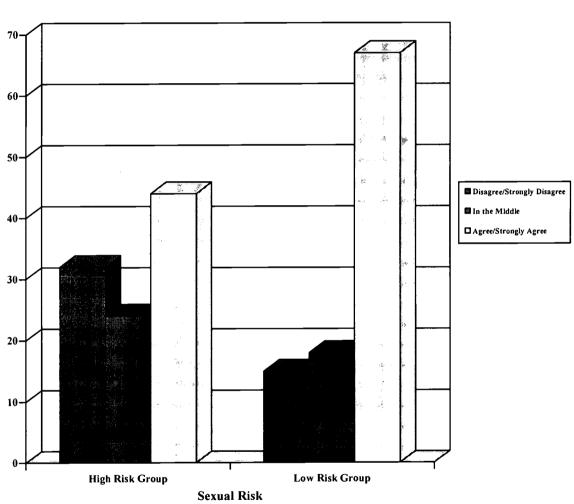
Percentage of Youth using Alcohol in last 30 Days





6

Furthermore, there was also a significant correlation between sexual risk scores and endorsement of the item "Even if I had a few drinks, I could refuse sex," with high-risk participants less likely to endorse this item (68% vs. 44%, $\chi^2 = 6.11$, p < .05).

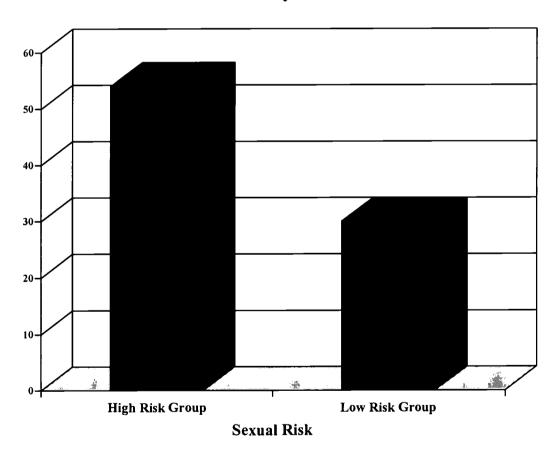


Even if I Had a Few Drinks, I Could Refuse Sex



An association was also observed between sexual risk scores and marijuana use during the past month (r = 0.26, p = .01), with high risk participants reporting more days of use. Additionally, a greater proportion of high risk participants smoked marijuana during the past month (54%) than low risk participants (32%; $\chi^2 = 13.73$, p < .05).

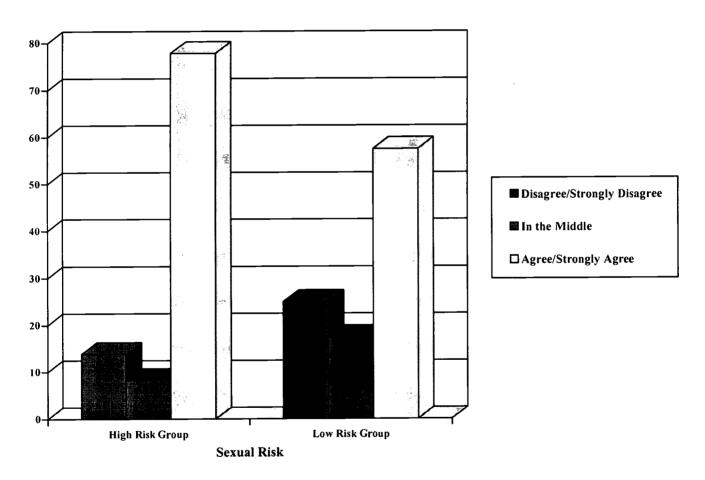
Percentage of Youth using Marijuana in the last 30 Days





Furthermore, there was a significant correlation between sexual risk scores and endorsement of the item "I could refuse drugs, if a friend offered some," with, high risk participants less likely to endorsed this item (58%) than low risk youth (78%; $\chi^2 = 5.07$, p < .05).

I Could Refuse Drugs if a Friend Offered Some





Conclusion

AA youth who engage in high risk sexual behaviors are more likely to use alcohol and marijuana than those who do not. High risk youth also report lower self-efficacy for refusing drugs or refusing sex after drinking. Prevention programs should be designed to address the interaction of these risk behaviors.



References

Boyer, C., Shafer, M., Wibbelsman, C., Seeberg, D., Teitle, E., Lovell, N. (2000). Associations of sociodemographic, psychosocial, and behavioral factors with sexual risk and sexually transmitted diseases in teen clinic patients. *Journal of Adolescent Health*, 27, 102-111.

Centers for Disease Control and Prevention (2001). Young people at risk: HIV/AIDS among American's youth. National Center for HIV, STD, and TB Prevention. www.cdc.gov/hiv/pubs/facts/youth.htm.

Caetano, R. & Clark, C. (1998). Trends in alcohol-related problems among Whites, Blacks, and Hispanics: 1984-1995. *Alcoholism: Clinical & Experimental Research*, 22 (2), 534-538.

Jones-Webb, R. (1998). Drinking patterns and problems among African-Americans: Recent findings. Alcohol Health & Research World, 22 (4), 260-264.

Newman, P. & Zimmerman, M. (2000). Gender differences in HIV-related sexual risk behavior among urban African American youth: a multivariate approach. *AIDS Education and Prevention*, 12 (4), 308-325.

Poulin, C. & Graham, L. (2001). The association between substance use, unplanned sexual intercourse and other sexual behaviours among adolescent students. *Addiction*, 96, 607-621.

Wallace, J., Forman, T., Guthrie, B., Bachman, J., O'Malley, P., Johnston, L. (1999). The epidemiology of alcohol, tobacco, and other drug use among Black youth. *Journal of Studies on Alcohol*, 60 (6), 800-809.



Abstract: HIV Risk and Substance Use Behaviors Among African American Youth

The purpose of this study was to determine if there was an association between HIV sexual risk and substance use behaviors among a sample of inner-city African American youth. As part of a larger study, youth (n=193) completed questionnaires that measured sexual risk (last 3 months) as well as substance use (past month). Participants were separated in to high risk (≥ 1 unprotected sexual act) and low risk (0 unprotected sexual acts) groups. A greater proportion of high risk participants as compared to low risk youth used alcohol (44% vs. 26%; $X^2 = 3.82$, p=.06) and marijuana (54% vs.32%; $\chi^2 = 13.73$, p < .05) in the last month. Further, a significant correlation between sexual risk scores and alcohol consumption in the last month was observed, with greater sexual risk being associated with greater alcohol consumption (r=0.22, p=0.01) and marijuana use (r = 0.26, p = .01). High risk youth also report lower self-efficacy for refusing drugs or refusing sex after drinking. Results indicate that African American youth who engage in high risk sexual behaviors are more likely to use alcohol and marijuana than those who do not. Prevention programs should be designed to address the interaction of these risk behaviors.



Goggin, K., Metcalf, K., Kennedy, S., Wise, D., Murray, T., Broadus, K., Burgess, D., Reese-Smith, J., Terhune, N., Buckendahl, H., & Downes, A. (2001). HIV Risk and Substance Use Behaviors Among African American Youth. Under review for the 109th Annual Meeting of the American Psychological Association.

HIV Risk and Substance Use Behaviors Among African American Youth

Rates of HIV infection continue to rise among African American (AA) youth despite declining rates in other populations (CDC, 2001). The rate of new HIV infection among AA adolescents is more than 8 times that of Caucasian youth and 6 times that of Hispanic adolescents (CDC, 2001). In 1999, AA adolescents (age 13-19) accounted for 56% of all new HIV diagnoses (CDC, 2001). While HIV infection among youth is most often attributed to sexual transmission, other risk behaviors (i.e., intravenous drug use) have been implicated (CDC, 2001).

Rates of heavy drinking (≥ 5 drinks) among AA adolescents have stayed consistently high (15% for boys and 5% for girls) over a 10-year period whereas rates for white adolescents have decreased (Caetano & Clark, 1998; Jones-Webb, 1998). Frequent heavy drinking places AA adolescents at higher risk for problem development than whites (Caetano & Clark, 1998). In fact, AA adolescents who drink experience disproportionately more negative consequences as a result of alcohol use compared to youth of other ethnic groups (Wallace, 1999).

Evidence is emerging to suggest that alcohol, substance use, and sexual risk behaviors may be related. For example, Newman and Zimmerman (2000) found that risky sexual behaviors were associated with alcohol and other drug use among African American males ages 15-18. Boyer (2000) observed that adolescent female marijuana users had a greater number of lifetime sexual partners and history of an STD. Additionally, sex while under the influence of alcohol or



marijuana is associated with inconsistent condom use and multiple partners (Poulin & Graham, 2001). The purpose of this study was to determine if there was an association between HIV sexual risk and substance use (i.e., alcohol and marijuana use) behaviors among a sample of inner-city African American youth.

Participants were 193 youth enrolled in two alternative schools (one middle and one high school) in a major Midwestern city. On average, youth were 15 years old (SD = 2.11, range 11-21), identified as African American (83%) and equally likely to be male (52%) or female (48%). As part of a larger study, participants completed questionnaires in their homerooms or counseling groups during the fall semester of 2001. The questionnaire asked participants to record the number of vaginal, anal, and/or oral sexual risk behaviors they had engaged in during the past 3 months. It also queried the number of times condoms were used. A sexual risk score for each sexually active participant (n = 116) was calculated by subtracting the number of sexual encounters in which a condom was used from the total number of sexual encounters. Sexually active participants were classified as high risk if they reported ≥1 occasion of unprotected sex (n = 41). All others were classified as low risk (n = 75). Data on substance use was obtained by asking participants to indicate the number of days in the past month on which they used any substance including alcohol, marijuana, heroin, and six other commonly used substances. A substance use score was calculated for each participant by summing the number of days of use of each substance in the past month.

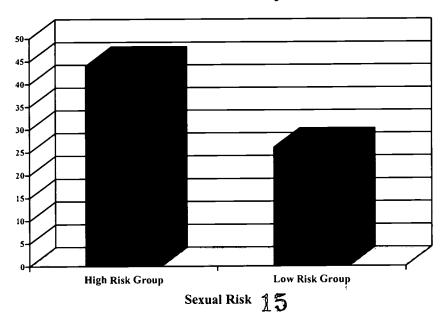


Results

Participants classified as high or low sexual risk did not differ in terms of their average age, gender, ethnic identity or age of sexual initiation. However, participants in the high risk group reported a significantly greater number lifetime sexual partners (M = 6.55, SD = 6.55) than participants in the low risk group (M = 3.96, SD = 4.66; t(103) = 2.36, p = .02), as well as a significantly greater number of sexual acts (vaginal, anal, or oral) in the past three months (M = 11.68, SD = 13.19) than participants in the low risk group (M = 3.52, SD = 4.74, t(110) = 4.73, p = .00).

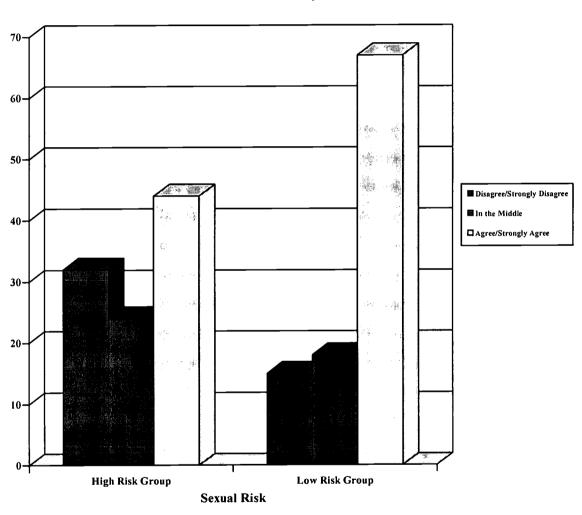
There was a significant correlation between sexual risk scores and alcohol consumption in the last month, with greater sexual risk associated with greater alcohol consumption (r = 0.22, p = 0.01). While the groups did not differ in terms of the average number of days in which alcohol was used in the past month (high risk = 10.44 vs. low risk = 8.11), a greater proportion of high risk participants used alcohol in the last month (44% vs. 26%; $\chi^2(1,1) = 3.82$, p = .06).

Percentage of Youth using Alcohol in last 30 Days





Furthermore, there was also a significant correlation between sexual risk scores and endorsement of the item "Even if I had a few drinks, I could refuse sex," with high-risk participants less likely to endorse this item (68% vs. 44%, $\chi^2 = 6.11$, p < .05).

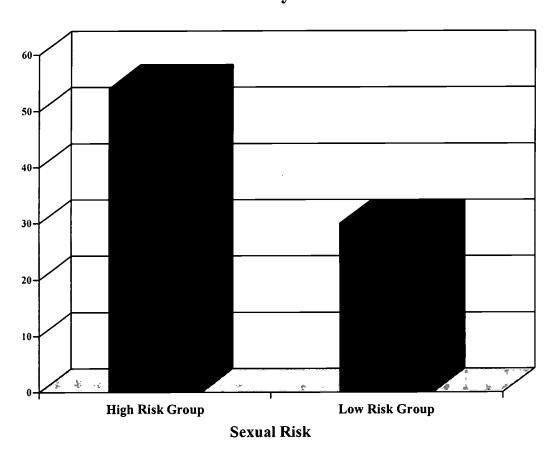


Even if I Had a Few Drinks, I Could Refuse Sex



An association was also observed between sexual risk scores and marijuana use during the past month (r = 0.26, p = .01), with high risk participants reporting more days of use. Additionally, a greater proportion of high risk participants smoked marijuana during the past month (54%) than low risk participants (32%; $\chi^2 = 13.73$, p < .05).

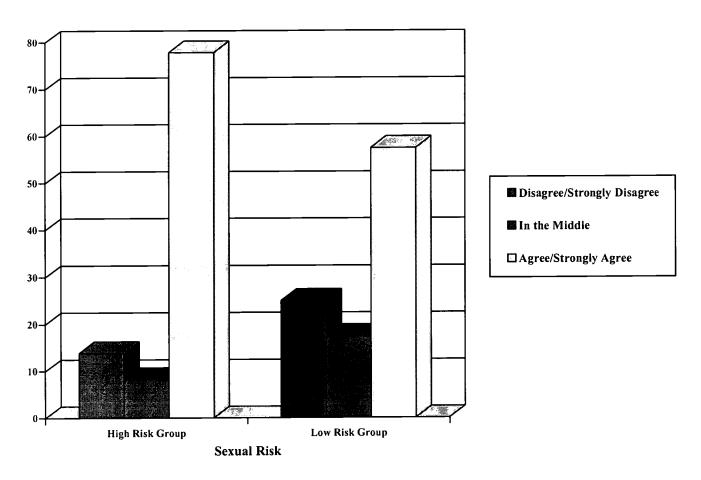
Percentage of Youth using Marijuana in the last 30 Days





Furthermore, there was a significant correlation between sexual risk scores and endorsement of the item "I could refuse drugs, if a friend offered some," with, high risk participants less likely to endorsed this item (58%) than low risk youth (78%; $\chi^2 = 5.07$, p < .05).

I Could Refuse Drugs if a Friend Offered Some





Conclusion

AA youth who engage in high risk sexual behaviors are more likely to use alcohol and marijuana than those who do not. High risk youth also report lower self-efficacy for refusing drugs or refusing sex after drinking. Prevention programs should be designed to address the interaction of these risk behaviors.



References

Boyer, C., Shafer, M., Wibbelsman, C., Seeberg, D., Teitle, E., Lovell, N. (2000). Associations of sociodemographic, psychosocial, and behavioral factors with sexual risk and sexually transmitted diseases in teen clinic patients. *Journal of Adolescent Health*, 27, 102-111.

Centers for Disease Control and Prevention (2001). Young people at risk: HIV/AIDS among American's youth. National Center for HIV, STD, and TB Prevention. www.cdc.gov/hiv/pubs/facts/youth.htm.

Caetano, R. & Clark, C. (1998). Trends in alcohol-related problems among Whites, Blacks, and Hispanics: 1984-1995. Alcoholism: Clinical & Experimental Research, 22 (2), 534-538.

Jones-Webb, R. (1998). Drinking patterns and problems among African-Americans: Recent findings. Alcohol Health & Research World, 22 (4), 260-264.

Newman, P. & Zimmerman, M. (2000). Gender differences in HIV-related sexual risk behavior among urban African American youth: a multivariate approach. *AIDS Education and Prevention*, 12 (4), 308-325.

Poulin, C. & Graham, L. (2001). The association between substance use, unplanned sexual intercourse and other sexual behaviours among adolescent students. *Addiction*, 96, 607-621.

Wallace, J., Forman, T., Guthrie, B., Bachman, J., O'Malley, P., Johnston, L. (1999). The epidemiology of alcohol, tobacco, and other drug use among Black youth. *Journal of Studies on Alcohol*, 60 (6), 800-809.







U.S. Department of Education
Office of Educational Research and Improvement (OERI)
National Library of Education (NLE)
Educational Resources Information Center (ERIC)

REPRODUCTION RELEASE

(Specific Document)

I. DOC	UMENT IDENTIFICATION:	1			
Title:	Risk and Substance				
Author(s): Googin, K Metcolf, K L Terrane, N Buckerdahl, te Source:	Cennedy S Wise D M	www.T Broad	WSK Burgess, D Recsers	mil
Corporal	Terrune, N Buckerdahl, te Source:		Publication Date:		
Uni	persity of Mussouri Ko	insas City		2001	
Inordo abstract jo media, and granted, o	RODUCTION RELEASE: er to disseminate as widely as possible tin furnal of the ERIC system, Resources in E d sold through the ERIC Document Repro ine of the following notices is affixed to ea nission is granted to reproduce and disser e.	Education (RIE), are usually made availa oduction Service (EDRS). Credit is give ach document.	able to users in microfich en to the source of each	ne, reproduced paper copy, and elect document, and, if reproduction relea	troni ase i
	e sample sticker shown below will be affixed to all Level 1 documents	The sample sticker shown below wil affixed to all Level 2A documents		The sample sticker shown below will be affixed to all Level 2B documents	
PERMISSION TO REPRODUCE AND DISSEMINATE THIS MATERIAL HAS BEEN GRANTED BY		PERMISSION TO REPRODUCE DISSEMINATE THIS MATERIA MICROFICHE, AND IN ELECTRONI FOR ERIC COLLECTION SUBSCRIBE HAS BEEN GRANTED BY	L IN C MEDIA ERS ONLY, MICF	PERMISSION TO REPRODUCE AND DISSEMINATE THIS MATERIAL IN MICROFICHE ONLY HAS BEEN GRANTED BY	
TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)		TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC) 2A 2B		TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)	
Level 1		<u> </u>		Level 2B	
and dissem		Check here for Level 2A release, permitting of and dissemination in microfiche and in electron ERIC archival collection subscribers the subscribers are subscribers as indicated provided reproduce is granted, but no box is checked, documents will be processed as indicated provided reproduce is granted, but no box is checked, documents will be processed as indicated provided reproduce is granted, but no box is checked, documents will be processed as indicated provided reproduce is granted.	onic media for only duction quality permits.	k here for Level 2B release, permitting reproduc and dissemination in microfiche only	noit
	I hereby grant to the Educational Resou as indicated above. Reproduction from t requires permission from the copyright information needs of educators in resp	the ERIC microfiche or electronic media holder. Exception is made for non-pro	by persons other than EF	RIC employees and its system contrac	tors
Sign here, →	Signature: Juth Signi		Printed Name/Position/Title: Dr. Kathy Goggin Associate Professor		
please	Organization/Address: H825 Troost, Suite !!		Telephone: 8110-235-1055	· -	
ERIC FUILTERS PROVIDED SERIC			E-Mail Address: ΔΟΦΑΙΛΙΚΕΘΕΊΝΙΟ.		
ull Text Provided by ERIC	American F	Psychological Association August 22		<u>- WY 1 </u>	

III. DOCUMENT AVAILABILITY INFORMATION (FROM NON-ERIC SOURCE):

If permission to reproduce is not granted to ERIC, *or*, if you wish ERIC to cite the availability of these documents from another source, please provide the following information regarding the availability of these documents. (ERIC will not announce a document unless it is publicly available, and a dependable source can be specified. Contributors should also be aware that ERIC selection criteria are significantly more stringent for documents that cannot be made available through EDRS.)

Publisher/Distributo	r:
Address:	
Price:	en e
	<u> </u>
V.REFERRAL	L OF ERIC TO COPYRIGHT/REPRODUCTION RIGHTS HOLDER:
the right to grant this	s reproduction release is held by someone other than the addressee, please provide the appropriate name and
Name:	
Address:	
V. WHERE TO	SEND THIS FORM:
-	

Send this form to the following ERIC Clearinghouse: ERIC Counseling & Student Services

University of North Carolina at Greensboro 201 Ferguson Building PO Box 26171

Greensboro, NC 27402-6171

